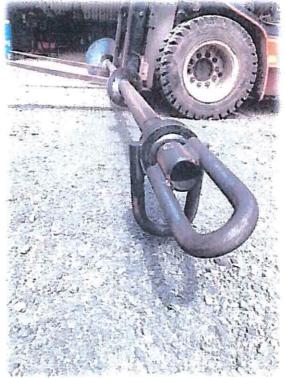
Anchors

Fielder Marine Services Anchors and Drill,

- The anchors are manufactured from 65 NB schedule 80 Seamless line pipe of non-Chinese origin,
- Nominally 6m long
- Anchor swivel eye 40mm solid round
- Anchor drive 33mm solid round
- Flanges 10mm plate
- Blank flights 6mm plate
- Anchor flights 180-1000mm diameter 10mm plate
- Pitch subject to ground conditions
- Drill torque is maximised to remain within the yield strength of the pipe. Around 15,000Nm.
- Each anchor the installation hydraulic drill pressures are monitored; this is a direct relationship to drill torque which has a 95% accuracy in determining holding power of the anchor.
- The anchors are nominally 6m long this can be reduced down incrementally to 3m if ground conditions require, but the emphasis is always on installing the longer anchor shafts with the largest plate.
- Anchor plate size and position can be varied on site, again with the goal of maximising installed torque whilst installing the longest anchor possible.
- Anchors are positioned using a Trimble or similar surveyors GPS giving sub meter accuracy.
- No chain or thimbles are used in the anchor warp.
- The anchor warps are nominally 40mm 3 strand PPE rope, this is tied directly to the 40mm solid bar of the swivel using an anchor knot.
- The knot is designed to bind on the bar this minimises /eliminates any movement and therefore wear,
- The swivel is around 200mm above the seabed on final install.
- Anchor warp ratios are a minimum of 2:1 that is twice the maximum depth on the largest tide with the largest swell.

Cross Section drawing in separate file attached to this application.







Equipment Booklet

The following file gives an outline of the ropes and equipment IMSC will use. It also gives examples of use in various countries.



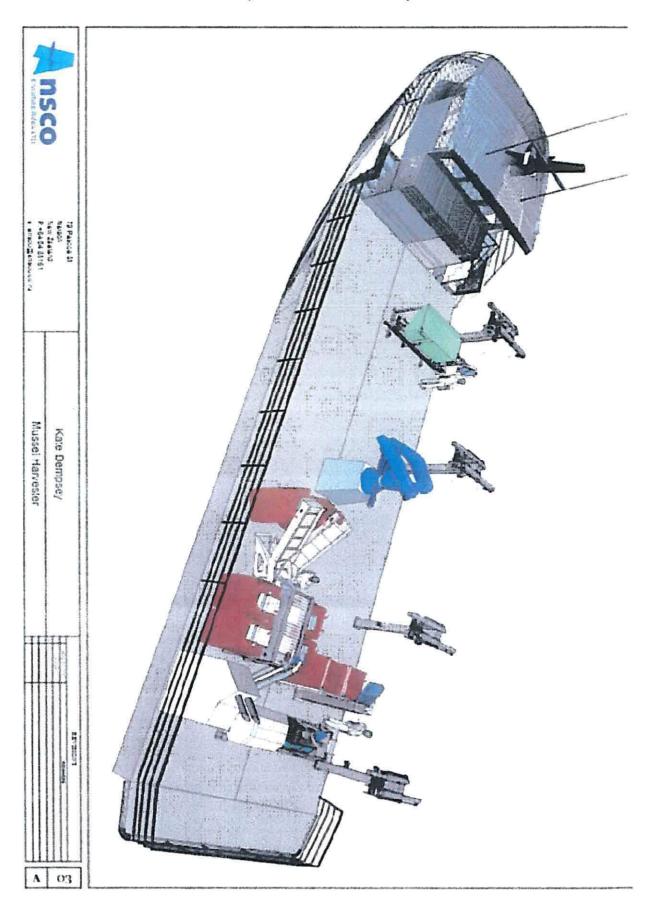
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Mussel Harvester Layout.pdf

Example of Harvester Layout



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Mussel Harvester	Kate Dempsey	
	TAXABLE TO SELECT	

Nate Dempsey	Mussel Harvester
	Kate Dempsey

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